

Basic Immunocytochemical Techniques

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This book, which is designed as an introduction to the basic aspects of immunocytochemistry, has been used as a manual for the Basic Immunocytochemical Techniques course at the Marine Biological Laboratories in Woods Hole, Massachusetts. Elementary theory, experimental protocols, and problem solving chapters are provided with the expectation that the reader can self-teach the basic techniques and troubleshoot many of the common problems encountered. Although the primary focus is on light level methods, a brief treatment of electron microscopic immunocytochemistry is included.

This manual includes not only fundamental information about a few basic immunocytochemical techniques, but also the little tricks that can make the difference between poor results and reliable staining. It should prove invaluable for investigators beginning immunocytochemistry for the first time as well as for scientists who are responsible for training others to perform this valuable technique.

Outline of Contents:

Introduction to immunocytochemical methods; Procedures and recipes; Glossary; General reading list; Bibliography; Vendors for immunocytochemical products; Sample protocols; Index.

June 1989. About 180 pages, 100 illustrations. Paper £30.00 (tent.) 0 86542 065 3



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The Enterobacteriaceae have probably been studied more intensively than any other Family of bacteria. The group contains bacteria such as *Salmonella*, *Shigella*, *Escherichia coli* and *Yersinia*, strains of which are major pathogens of humans and animals, and *Erwinia*, species of which are an important cause of disease and spoilage of plants. The elimination of human pathogenic strains from food and water is a major concern for microbiologists with a responsibility for these products.

The use of *E. coli* and *Salmonella typhimurium* as models in studies of bacterial structure, metabolism and genetics is leading to rapid advances in understanding of the fundamental properties of these bacteria, while rapid progress is also being made in studies of mechanisms of pathogenicity.

The aim of this Symposium was to present a view of the basic properties of these bacteria and to relate this to the activities of the bacteria as pathogens, their resistance to antibacterial agents, improvements in methods that can be used for their detection and isolation and aspects of their survival in the environment.

Contents

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Enterobacteriaceae associated with animals in health and disease A. H. LINTON & M. H. HINTON
Foodborne enterobacterial pathogens and rheumatoid disease V. K. BUNNING, R. B. RAYBOURNE & D. L. ARCHER
Toxins S. M. SCOTLAND
Stages in bacterial invasion P. H. WILLIAMS, M. ROBERTS & G. HINSON
Mechanisms of resistance to antibiotics and other chemotherapeutic agents I. CHOPRA
Resistance of Enterobacteriaceae to preservatives and disinfectants A. D. RUSSELL & G. W. GOULD
Methods for the detection and isolation of *Escherichia coli* including pathogenic strains H. HOFSTRA & J. H. J. HUIS IN 'T VELD
Isolation and identification of *Yersinia enterocolitica* and the *Yersinia enterocolitica*-like bacteria A. GILMOUR & S. J. WALKER
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